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Processor Speed

This is sensitiving of an obsession in PC circuits, with endless questing of slock uponlin of slock uponlin or reviews. However, tensome this was the Art important to understand that this has a direct to use. The PCD III uses the original Bills processes, which is the district of the least 100% family of chips, but the control of the least 100% family of chips, but the control of the least 100% family of chips, but the least 100% family of chips, but the least 100% family or 250 Mar. This is very nearly review the preferences to the least 100% family or 1

Switching the machine on brings a Society fan to life, and as the display clean, a momber of messages appear at the top of the screen. These seem alignity irrelevant, and I monder if a

agent previous costs consider the agent process and a cost of the program of the costs them from a set up repayate, on them have be also MMCos by costs them for the same and the process them from a consider to reasoning Workshooth on an Annagan beat the cost of the process from get in per a plan A. process; from the process report and a cost of the cost of t

The TCH will run all the relevant point of expect. Has it, exceptling bursing packages requiring a hard date or TCA standard problem adaptive and the terminal problem adaptive presenters' shock appeal deservit make much difference in the comparer. On obligation however, 3 h not a relative conduction to the comparer, or ordering the comparer of the comparer, programs in the appeal of the expense mont be machine. Only the localization while the taken with a plant of sale last short of the comparer of the should be taken with a plant of sale last short, or comparer is a productive to the comparer of the comparer of the last short of the comparer of the point to the comparer of the comparer of the last short of the comparer of the point to the comparer of the comparer of the last short of the comparer of the point of the comparer of the point of the last short of the comparer of the point of the comparer of the comparer of the point of the comparer of the comparer of the point of the comparer of the comparer of the point of the comparer of the comparer of the point of the terminal of the comparer of the point of the terminal of the comparer of the point of the terminal of the comparer of the point of the terminal of the comparer of the point of the terminal of the comparer of the point of the terminal of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the terminal of the comparer of the comparer of the comparer of the comparer of the terminal of the comparer of the



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Conclusion

Curgle in marror competitor, the Amazand PCISS2, reveals fee glaring defections in other. The Amazand is shaper, but the Commodere has a better display, and so so. It might in the end scene does no who often the bester bundling deal. At the monute, Commodere are bandling a printer that MPSI236 — with every PCISSS.
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What It Does

Product ACV Das Supplier F.S.S.L.

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How it works

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Getting it in

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24	140 EATA 55.59.44.54.44.50.5"	67	1000 BATA 50, 150.51, 48,55.58	68	1474 EATE 40.184.51,50,70.75
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C128 PROGRAM

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29	2920 DETA 26,234,1,224,44,54	35	2348 EATS 00.09,09.00,44.80.	35	2708 EATS 69.69.68.179.49.
20	2030 DRTR 58.52.50,153.34,20 2.34.58	PC	3352 EATA 89,65,58,32,32,32,22.	63	2778 IATE 80.69,69,60,139.
DA.	2940 0879 58,129,73,179,40,1	10			
10		77	30.32 3378 BATK 32.50,32.32.52.343	120	7,55,50 2700 EATA 40,58,713,55,50.
11	9.50,130 2900 CRTH BB.153,34.203,145.	3.3	22.02 2018 EATA 70.79.79.00.0.79.2		5000 BATA 32.02.142.32.32.3
10	34.8.260 2070 COTS 35.244.1.224.64.54				70.79 3018 2ATA 87.69.82.0.146.3
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		77	3488 EATA 89.67,58,224.44.55		
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'n	See EATS 50.32,32,32,48,34,	04	3420 SATA 34.58,224,44.54.57	13.	3049 SATA 9.286.39.190.2.1
ă	3912 DATE 37.254.1.224.44.54	29		45	2050 2073 49.49.40,170.40,
ĸ.	Dele fara 50.48.58.153.34.19	9.7	169,30 3440 DATA 118,2,224,44,55,53	Tit.	
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C128 PROGRAM

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		TN.	0.53 318 SATA 48.44.49.50.151.59.	67	\$40 0479 234,165,9,145,6,
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78	4300 TATE 45,53,50,155,51,48	50	546 DRTH. 59.50.51.44.50.51.5	33	
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14	178 DATE 129,77,178,48,164,5		24.14.189 689 2873 234.40.110.234.14.1	100	25.105.8
12	8,53,50 188 DRTH 56,50,151,53,55,51,				3,15,234,174 1818 DATE 9,234,172,10.2
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C64 PROGRAMM

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C64 PROGRAMMING



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By Tony Hetherington

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as individual toquences; for example

This month. Mike Benn shows how to run rings round

Table (Circle - Hires)







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DEMON'S WINTER









LAS VEGAS CASINO





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Demon's Higher Tellows the multitional bank and service. There are mid-quarted to fundamentales, but so selection, there are mid-quarted to fundamentales, to the size for the successful parties of the successful participation. Control of the partie following size from the major south with majories of sports are recognitive on the major south with majories of sports are recognitive and the successful participation of the successful participati



GAMES UPDATE

Para

Assault Course

More up. I can resemble wagging my justick like and as I tried to environ a practing 1500 more one in Doubleton game. Services proceeding to Doubleton game between the resemble and the services of the control of again. Oh to be seen, the game backs apperficially different. The shaketory four six is staken, but at the end of the day, juystick wagging in what is not allowed.

There are four different common for you to attempt, each consisting a variety of the shaket. There are with no the

Is clear. As a year way in a serie can per section facility, As a part way in a new cattery bece at warth facilities not be said from a diseaser of one part, and been described to the perfect of the part of the perfect of the part of the perfect of the part of the said of the perfect of the part of the said with the course in perfect on the part of the perfect of the part of the part of the part of the perfect of the part of the part



Head for Home

We present an update for this popular program

By Kirk McMillan

asing the technique of joining Mt. Data onto the end of a basic program. A few zero bytes squares each section and prevent the Mt. from being deplayed with Black LIST command.

Their are tow very good reases for doing this fairly, it, sarm conditionally cone. Heaf for Henne would

on hazards and the Crit serving, with no making for FDR NEXT loaps to poke data into memory. However, there is not disadvantage— Basic programs can't be offsed or alored. This changes the member of hype used, and causes the M. continue.

station. This classification was been as been as different address to that intended. The early exception in where the change decear's affect the length of a program, as in changing DLOAD to LOAD. Both commands are takenined and use one byte.

Unfertuneasity, Head for Henry's

matter angange want spotted or in at the rangaries and mas published as two basic program (PC March, 1999).

New comes the task of adding the ML to both programs.

After typing in the basic sections, you must check that no exhits spaces

first pregram in send, in direct mode, motion

PRINTPEEK (45) +254* PEEK (46)

The source sust be less than 4450.
Likawisa, the routh for the second program should be less than 5528. It

a list of typing required mitth as one of exerce (seeking, EARA ENT) may help a listle here by speeking input and sharing you to stress.

"Type is a and runs the pregnent will be a listle be the property of the seeking you to be a seeking to the seeking you to be a listle be a list

other key allows posture expected for To find from DATA (BYTRY) peen ESC vision and their other the associate to save year work. FOR MLL user: S "rames", 8, 1166 1484. and ML2 — S"name", 8, 2536, 3630.

PER DATA INDEX

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THE PROPERTY LEADER - 1800 AND THE PROPERTY AND THE PROPE

for "s" and LOAD for DLOAD.

If you loss reads of where you is
of the any reason want to cherk will
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The like addresses and each row
bytes will correspond to 2 with
Entity, For confident to 2 with
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entered.

you seed, OMI, I should on Just toyou and ML, II block), the methor
any merging them with the Basic praglate, is as follows:
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record reasons;
(2) RENAME "Head for Horses"
"HPR.old"
(6) LDAD "sell", K.I.

"HPLOOF"
(D) LDAD "ml1"A,1
(G) DSAVE "Hood for House"
(S) DLOAD "L. BASIC"
(E) RENAME "L'house"
("L) LDAD "ml2"A,1
(E) DSAVE "L'house"

60 D. SETENDOS - PRINCIS - SETENDOS - SETENDOS - PRINCIPA - ", PORRES | SETENDOS - PRINCIPA - SETENDOS - PRINCIPA - SETENDOS - PRINCIPA - P



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Extending Basic

Create your own-symbol table, and learn all about tables and search routines

By Burghard-Henry Lehmann

developed a routine which allows can technical labels for GOT be and GOSUB in Black. We did this with a reutine that stores each label and for value in the Basic variable area which follows directly after the Basic

But with this method we are subject to the finitiations. Commodelee Basic imposes on the use of variables, the main one being that only the first two chanacters of a variable came are taken into account - the next are ignated.

into account - the rest are ignated.
What we want to do a overcome
this limitation by creating our own
spended table. In the presents we mill
learn, about several concepts its
machine code programming when nill
be very until in whatever programs

The Symbol Table The symbol table we must to

reach label, and next to it the fine, mather to which the companel has to jump when the label in used with a GOTO or GOSUB instruction. In machine code pregnamming, you create many labels. A table is as amay of data where each entry is of the same legals. Tables are useful for storing data and accessing it quickly and efficiently. For the symbol table we create in our programs, I have chosen a memory area standing from

Thus, 50000 in the hase address of our symbol table.

To make each entry the same length, Per showes a mancious of six recognizable characters for each tabel. That is, if a label its longer than six characters, the rost will be ignored, and if it's sharies than six characters, the difference will be filled (or "padded") with even in the symbol table, as yet

Since we also want to store the fir number belonging to each label not to the label, each entry needs a to store its high byte. This important if the line number than 256.

for id., we now eight begins for our label starred in the symbol table the starred in Label starred in the symbol table. Therefore, no point at the brighten and the starred in the starre

Storing a Label

The results to steen and hald in the sensible dash (see 2903.3050) is quint simple. Before the comparer start management of the sensible dash (see 2003.2050) in the sensible dash (see 2003.2051.2051. This saltern as to use 1200-223). This saltern as to use 1200-223). This saltern as to use 1200-223). This saltern as to the sensible dash to be for found, see 390-230, in the sensible dash to be found, see 390-390. See 300-300. The sensible dash to the flux seasons and of the label in the flux seasons and of the label in the flux seasons of the label in the flux seasons of the label in the flux seasons of the label of o

addressing.

If the label is shorter than is characters, the following loop fill 3060-3000 fills the rest with space Next the line number belonging to it label is stated. To do this new increme zero page 251/252, which stores if

this destination, but Y has to contain their different value. To point at the search to point at the destination is has been been destinated as his contain rees and one. To solve this problem, table the laws byte of the line number first and part of a costs the stack dieses \$250-3250.

tath decrement that index by
the control of the true between that index by
the control of the true between the index by
the control of the true between the index
times 300-3208, Such tricks are
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the next label has to be entered.

End Marker

Warn all labels have been collected

the When all labels have been collects and cannot line the spatial table and the spatial table and the spatial table and the labels and the spatial table and the labels and tables an

that it heart's found the label and that the search is finished. If there was no way to determine the end of the symbol table, the compater would go on searching for ever—that is, it would get lost in an endieso loogi. To signify the end of a table, it is seeminess useful to see an end enacte, as we do here. A color time is in more useful to store the end location or the beginning of the last entry in a variable.

Now we come up against a time - spec-

carching for a Lable! been essenting the Basic prooff every time the competer or label after a GOTO or GO amanad, it has to usarch througmixed table to find that label as the nember and I as it whiouts to jump to the right destinabe select to wike a search resort have to ask yourself some surface to ask yourself some

In reder to write a startle ready you have to alk youncell some or impartant questions, when it is starch successful, and when is in This younds trivial and obvious, I remember, the competent in a visingle-centroid sameal and kee embing about what you have in mil-50 you have to define things or severately. This is half the art overately. This is half the art

Sio you have to define things very corrected, This is half the act of programming a computer. The search fee a label in successful when all the six recognized characters of a label in the sortific match with the characters of a label in the symbol halfs, And the remarks are smaller, And the remarks such as the six remarks are smaller, the social of the symbol table and heavifound the label is was searching for. Does not've got this clearly in our mind, the constraction of the search

and if the cyclopial table and function and the label it was obscribing for.

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LOOK FOR EXTERNED THE COMMENCE OF CLASSET FRONTAGE OF CLASSET OF SECURITY

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CONTROL OF SOME SACRA CONTROL OF SACRA SETTY SHORE BORDER COLOUR OTT 53289

MAIN ACCOUNT COMMENTS OF STREET OF SCHOOL STREET OF SCHOO

Windows on the C64 Using windows on your C64 couldn't be enries

Re F.E. Randall

typed in from the keyboard. They



To drag the window from your

Dragging Windows

Error Messages

Basic program, you would probably

Demonstration Program

PRO	CZAA
W	12.5
*	28.5
25	20.7



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C64 PROGRAM

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THINKING OF BUYING A NEW CAR? DON'T





Star LC10-C Colour Printer

OF LONG

ehane: (\$71,840,1805

Spritz Sprite System

Re Mark Everlagham

THE Fairy or Hobushin." Henry, Maybe, but perhaps the

The error messages SPRITZ gives

Type Mismatch Error - you have

bers 1.8 the HILP command will

or OFF. This feature of the HELP

a RAMPONT command to tell

HARDRYS: PRINT "ABCD

The HIPPES and MILLTI communds

SPRITZ Sprite

CHI Top right that code (0. 235) CH2 - Bettom left char code (9-25%)



PLUS4 PROG

specified net as ASCII but as ecodes, as for the BEFENI consu. The reason for this is that using AS severe characters are not evoluity of the property of the conference of the conference of the aster original value. Again, relevant reduce can be found on a 193 of year samously, also vibr \$F\$FITESCIN function. Colours are expresseded using

to the original value. Again, the referent release can be feeted on page 192 of your minimal, also refer the \$292772 SMR function.
Colours are represented using the colours and minimates values that you mould use in a COLOR command in represent all III colours. These are neared in the same order as the shansing colour for each quarter of the speke. Each speke is manhered for the each of the right annihile.

NPRITE 6, 1, 2, 3, 4, 3, 7, 3, 6, 3, 5, 3, 4
When SPRITZ is first used, each sprite

Character Colours ITE 9 96 97 1.0.1.0 98 99 1.0.1.0

OVER/UNDER/UNLECT

As mentioned before, each spele case
to elipidate allows or behind
foreignand graphics, or with selective
prices, If a spelic in OVER is appears
on top of anything potand on the
serven. If a spelic is UNDER then is
appears behind encrything range; a
spelic character on the serven. When
is also place that the selection of the
many SELECTRO prices; a spelar as a
total to appear in Iriner of some for
made to appear in Iriner of some for

ge the server. It takes two parameters:

The fars SP is the specie sensible in
the range of O.7, and the second
parameters should be one of OVER.

TO STABLE OF SELECT on explained
in the MODE of a specie should be
the
chosen before a sprint in first
EXABLE:

When you find you do APAITZ, all
spition and set of OVER.

When you have use APATZ, at sprites are set to OVER.

Example: FOR N=0 TO T-MODE N, UNDER:

using SELECT mode year have 1 SPATEZ which character be considered as foregream block as buckground. The row to do take in FOREGROUND (be parameter in the range 6-25 character to be used as fore

Examples: FORECROUND 128 - All reversed characters are foreground and all others background. FORECROUND 65 - Every character with a code of 65-225 is foreground.

FOREGROUND 65 - Divery characterwith a code of 65-225 is faraground and every other in the range 0-64 is background.

Note that even with a command the FOREGORIUM bit action core.

INABLE SP/DISABLE SP

Once you have set up the s you wish to use, the ENABLE any command takes only one parama the sparks number in the range on the cauge of th

spines in the Basic direct mode, there can be considerable leases in spond of keyboard anto-report in the competer of feet and the considerable leases in the competer of feet and the sound of the considerable leases of the considerable leases of the considerable leases of the considerable leases. The internal clock will investigate the considerable leases of th

MOVE SP TO TX, TY

Obsigned you need to be able to or

sprins around the streets. The MOVE to constmain it has primary may of doing this. The course produced the primary may of doing this. The course the primary may of doing this around the course the primary of the range 40-3, and the concentration to which the sprins should be aspected been the sprin should be appeared been the sprin enable using 10-3 and to the Counsenabor 104-3. We appared using a comma like all other Science and the spring of the Science and the Science and the spring of the Science and the

M and the Y-coordinate in the range 0-22. When you use a MOVE cormand with that sprite enabled. SPATE asstantiately convoice to sprite from the series and reprises is in the new position leaving the series instar. The MOVE command can also be used when a sprite in set enabled in order to move it to its initial



ENABLE I SHIFT SP SLEFT/SRIGHT/SUP/

SDOWN and SHIFT SP.DIR

SPRITZ UTILITY

SCREEN SUP/SDOWN

window specified, the SCREEN com-

FONT : CHMFONT (Upper case)

H RESET/SCNCLR/ENABLE O

SPRITZ User Function

SPRITE campands. As with all

WHEN COMMODORE INV. 1989.

SPRITZ Keyword Abbreviation

20 MOVE 0 TO 28, 0 ENABLE 0:D-0 30 SHIFT 4, D.IF COLLIDS (9)

When first ran, these will be # 0

XPOS (SP) and YPOS (SP)

The XPOS and YPOS functions are

16 PRINT Position of Sprite &

COLLIDE is an important part of the

Foreground value I

32 0 - COLLIDE ON-

SPRITZ Sprite - Editor Program



Changing the Sprite-Editor Font Address

set at \$5900 - the highest possible the ADDRESS declaration in line 100

10 IFL - 0 THENL- 1: LOAD'N

ENABLE as the swites and then using SPRITE command as \$50,777 owing effect of a series of DEFINE and SPRITE commands

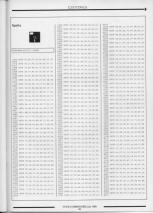
Getting SPRITZ Un and

The Basic Loader Program is used to

DLOAD'SPRITZ" (For Disk Users)

DSAYE "SPRITE EDITOR"

Sprite-Editor Program



LISTINGS

6000 DATA DO EE 48 ON 85 14 20 8	2670 SHEA SH. 20, 73, 29, CB, BE, BO, F	3090 0414 05, 94, 49, 63, 41, 42,
2,6365 Data St. 20, St. 00, Ca Co 15 S	CORD DATE TO BE SO TO TO SE SO OF S	\$,0339 3500 0434 10,1F,56,CS,53,10.
8,913F 0070 DWTH \$1,00,07,00,01,01,00.00.0	0.0038 0.0038 0.0038 0.007, 00, 00, 00, 00, 00, 00, 00, 00, 00,	
		2018 DASA DY. 53.42.56, VE.VS. 6.4360
#280 DATA BO, EZ, DR, BD, CS, BA, CA, S A, E380	\$700 Dele 80.F0.1F.00.F0.00.FE.2 6,046F	20/20 DASA NB. 83, NB, DV, 63, NB, 7 - 0/28
2000 Date On. OH. 95. 07, FE. 15. 59.1	2710 OWTH 10.00, 30,18,00,16,FE,0	3030 BASA NC, 40, 49, 46, 67, 46, 6,0000
2300 ENTH 18.ES,15.CS,74.50,07.6	2720 DETM BO.AB.00.50.35.18.60.2	30% SASA 51,13,15,50,03,11, 6,0000
#310 DATA #0,89,80,89,09,90,03,4	8730 ONTH 25.18.10.F4.48.88.88.88.3	3050 SASA VE. SE.CS. NE. VE.SE.
2300 EASA LC, 59, 70, 68, 54, 54, 66, 68, 8	2740 DWTW LELES, PK. 35, 10.30, 35,1	
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ESSS BASA 18,54,46,89,54,17,65,0	2818 BACA 18,49,18,00,48,60,A6,1	3030 DATA SE.CE, NY, SE, NS, CO.
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2418 BADA 18,65,50,69,50,50,50,50,5	ERSS Sect. FT. 95.06,40,58,10,30,4	3050 DRTH DW. 63, 95, 95, 96, D4,
ENER BACA DS, 60,00,00,00,05,15,00.0	8893 SMFA 17,F0,03,80, 98,59,EE,D	3090 DETR. 49,47,48,94,53,55,
		MPNO CRETA TH. NF. SP.CE. CO. BL.
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2512 BACA 85,81.05,33.16,18,65.0	2630 CASA IC.09.04,04,04,44,89,9	3350 DATA GC, 78, 60, 40, 60, 68, 68, 6360
2529 BASA 65, 80, 98, 82, 88, 61, 40, 0	2500 0454 18,48,40,81,84,00,08,1	3360 EA34 GC, 18, 83, 40, 68, 68, 61, 8183
2532 BASA 20,80,11,09,20,60,11,9	2500 DASA ED, 09, 90, 09, 90, 10, 59, 9	3370 DATA GO, 88, 83, EO, 68, 88,
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